

EcoSIS

The Ecosystem Spectral Information System



Phil Townsend, University of Wisconsin [PI]

Susan Ustin, UC-Davis [co-PI]

Quinn Hart [database]

[Justin Merz, UC-Davis \[programming\]](#)

John Gamon / SpecNet [2-band sensors, international linkages]

Shelley Petroy and Tom Kampe / NEON

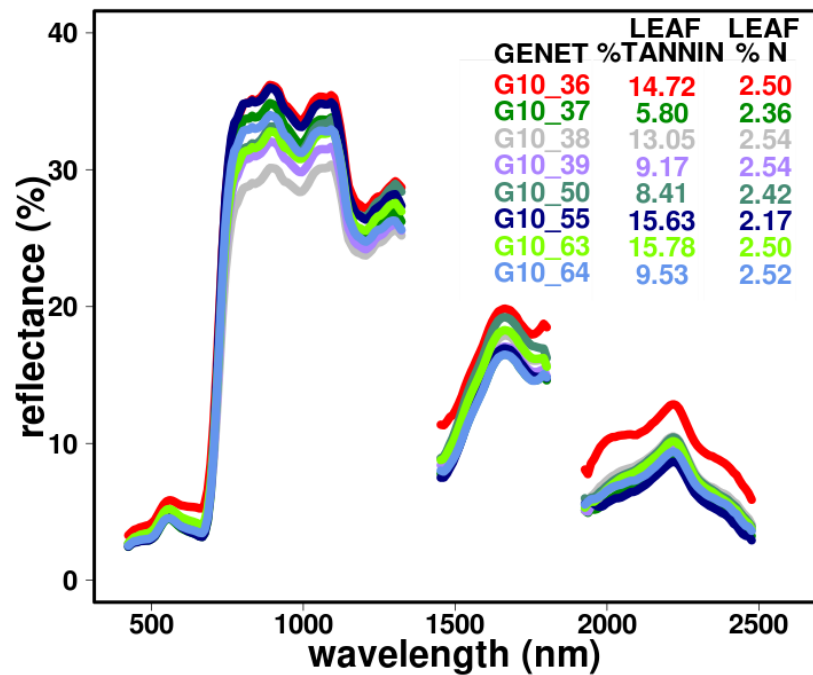
Dar Roberts / UC-Santa Barbara [best practices]

Phil Dennison / University of Utah

Shawn Serbin / Brookhaven National Lab [R tools for interfacing]

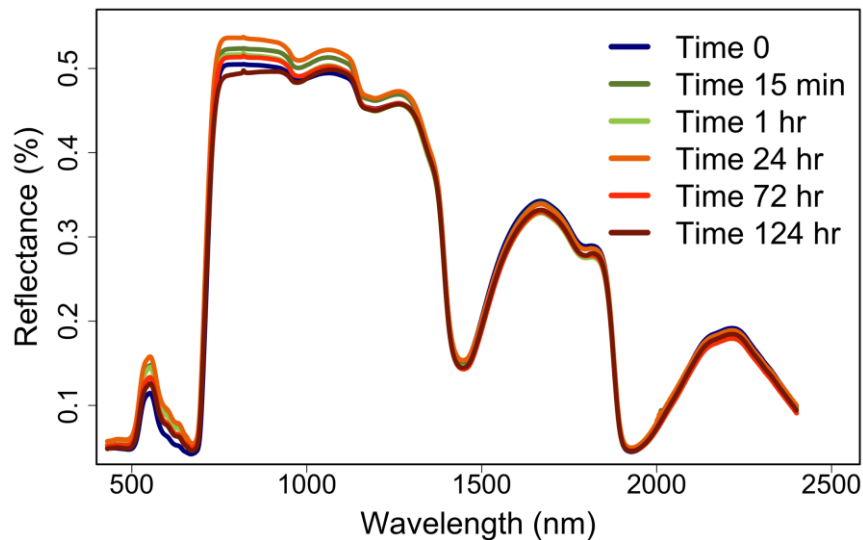
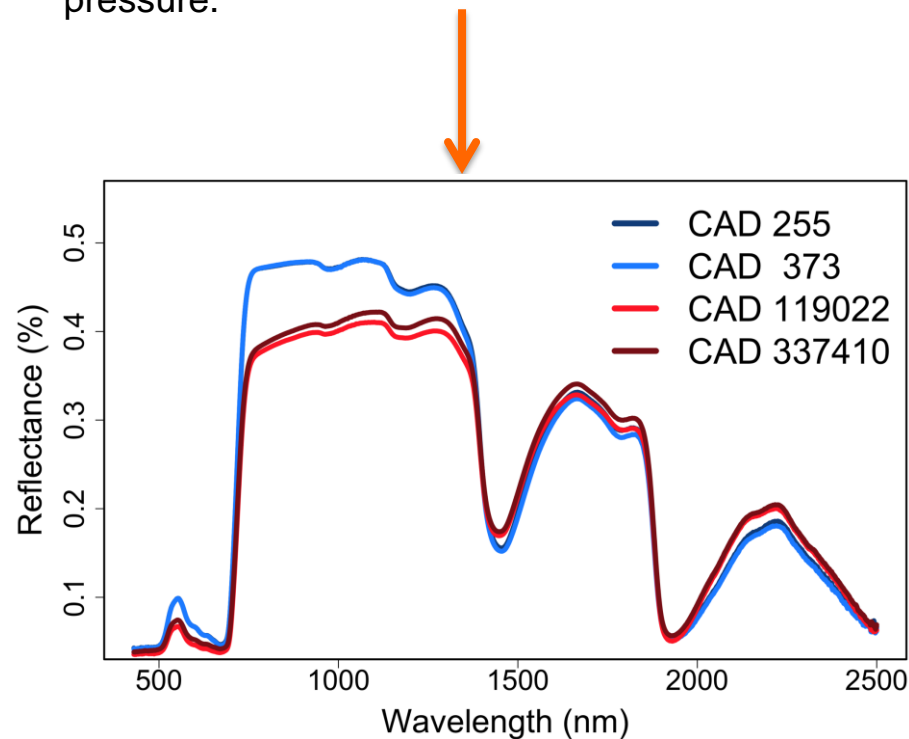
Art Zygielbaum / University of Nebraska

Simon Hook and Rob Green / JPL [warehouse]



← Genotypes of aspen.
Different reflectance.
Different chemistry.

Soybeans: same variety, different levels of pest pressure.



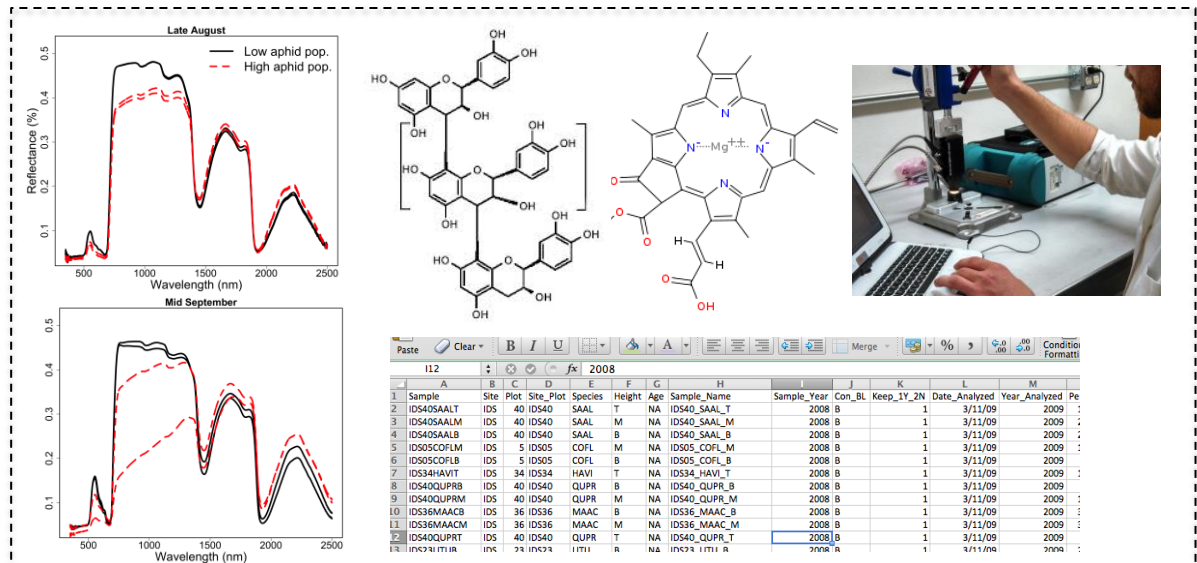
← Milkweed.
Rapidly induced chemical defenses to perturbations.

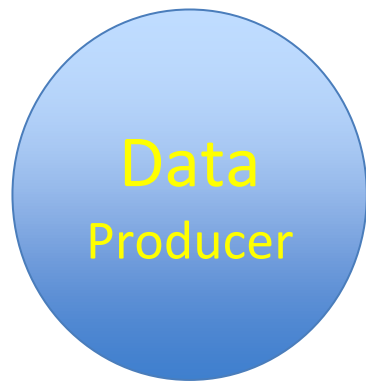
EcoSIS

- Ecosystem Spectral Information System
- EcoSIS is about data archiving
- EcoSIS is about enhancing user access to data [metadata, ancillary measurements]
- EcoSIS is [more] about discovery
- EcoSIS is about data and what we do with it.

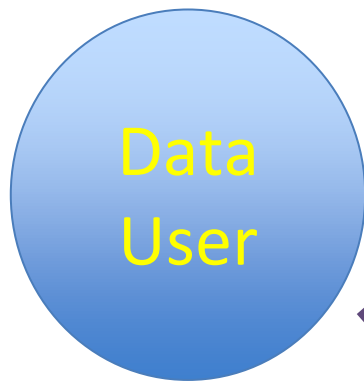


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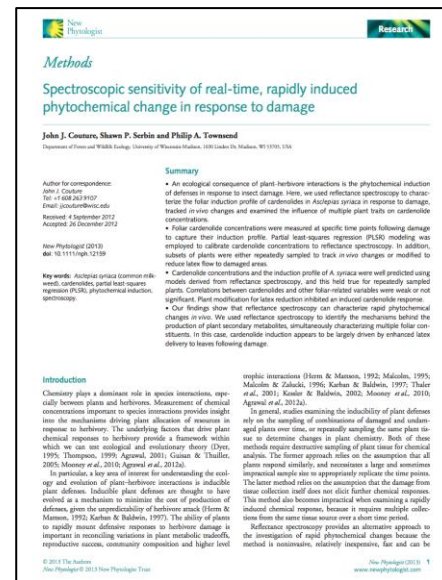


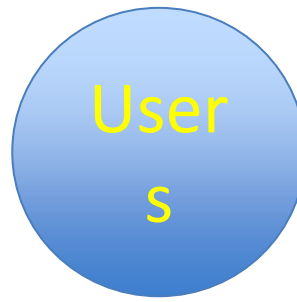


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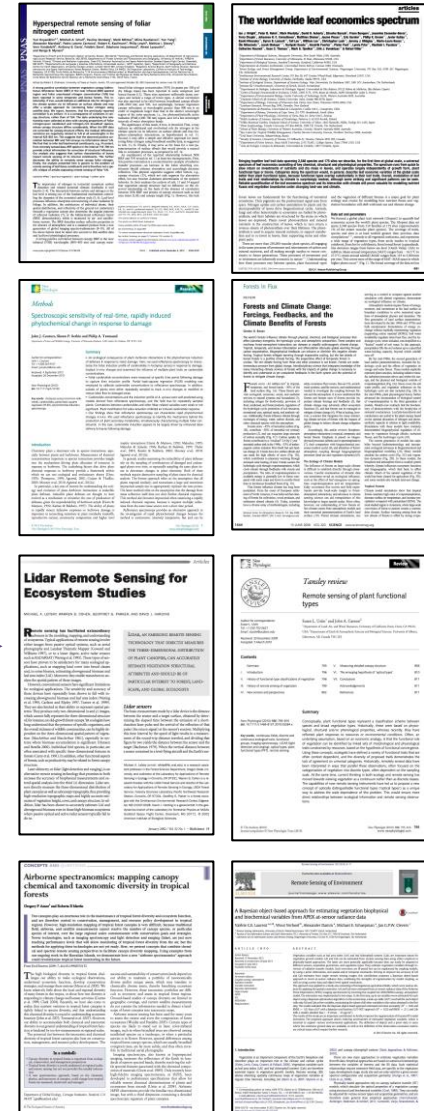


Analysis and Processing

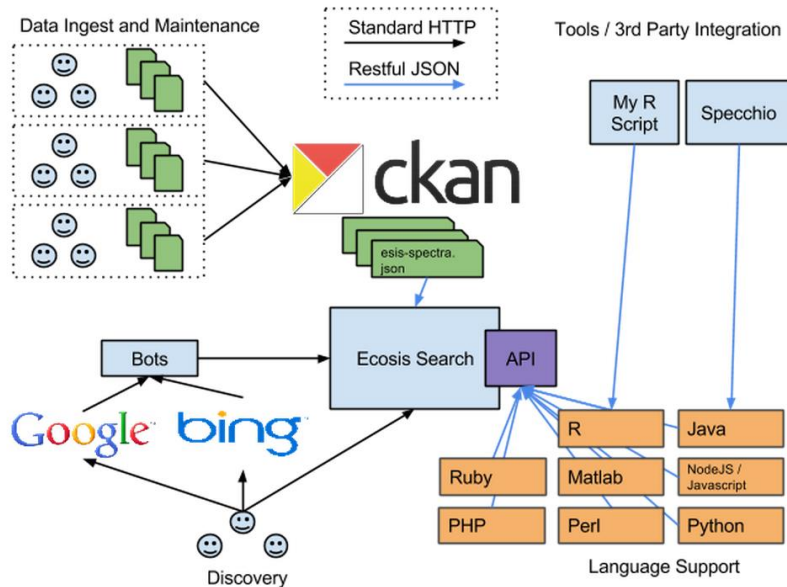




Analysis and Processing



EcoSIS



Key Features

- CKAN framework (data.gov)
- Web, plain English searchable
- Accessible from external programs
- Uses Specchio metadata schema
- User-defined metadata allowed
- Recommend TRY for trait meta field names
- Tool-building [open source]



